

Fiji.

1915-16

Genl. M. Mamm.
to Bank of New Zealand
Suva,

Fiji Islands.

Bussey Institution,
Harvard Univ.
Forest Hills,
Boston,
Mass.

25/4/13

25/4/13



From Chicago to San Francisco and return..	62.50
From Detroit to San Francisco and return..	73.50
From Cincinnati to San Francisco and return.	71.10
From Cleveland to San Francisco and return.	76.20
From Pittsburgh to San Francisco and re- turn	81.20
From Buffalo to San Francisco and return..	83.50
From Washington to San Francisco and re- turn	92.30
From Philadelphia to San Francisco and re- turn	92.95
From New York to San Francisco and re- turn	94.30
From Boston to San Francisco and return..	100.70

Tickets from Chicago, St. Louis and similar territory are good *via* New Orleans, returning by the same or any other direct route. All rates apply *via* Los Angeles. Round trip tickets going or returning *via* Canadian or northern lines through Prince Rupert, Victoria.

Osgood
Newcomer
Paine
Parker, G.H.

Bailey L.H.
Briggs, Dean, L.B.R.

Univ. Hall, Cambridge, Mass.
Write in Middle & End of year.

Simmons E.S.
Ellis B.
Robertson
Hower
Alice L.R.
Visher S.S.

Fish, Harold.
Moore, J. L.
Davis, Wm. 31 Hawthorn
Barbour
Phillips
Wright, S.G.
Clapp.
Carnochan S.G.
White O.
Castle W.E.

John
Boston
sh.
Michigan
Law.

School.

With the aid of the fund given to the university by Mrs. Amey Richmond Sheldon, the Harvard division of geology has sent W. G. Foye, assistant in the division, to Fiji. In that archipelago he will study the coral reefs, the uplifted limestones and the volcanic rocks. He will soon be joined by W. M. Mann, of the Bussey Institution at Harvard. Also as a Sheldon fellow, Mr. Mann will specially consider the distribution of organic species in its relation to the origin of the islands and reefs. Their joint investigation is planned to last nine to twelve months. Another Sheldon fellow, Sidney Powers, is spending six months on an investigation of the volcanoes and igneous rocks of the Hawaiian Islands.

Dr. JOSEPH E. POGUE, associate professor of

Wright, Charles R. of The Cooks Son.
336 Washington St. Boston

Adolphe
Newcomer, E. J. Box 272
Wenatchee, Wash.
Osgood, Phoebe, 517 N. Jackson St
708, 6th St Bay City, Michigan
Wheeler, Gerhard
Brins, White
Williams, Clark
East, Henshaw
Glaser, Fish, Harold
Osgood, Moore, J. D.
Newcomer, Harris, Wm, 31 Houghton
Paine, Barbour
Parker, G. H., Phillips
Bailey, L. H., Wright, S. G.
Briggs, Dean, L. B. R.
Wright, Hall, Cambridge, Mass.
Write in Middle & End of year.

Simmons, E. S., Clapp.
Ellis, B.
Robertson, Carnochan, T. G.
Hoover, White, O.
Slice, L. R., Castle, W. E.
Visher, S. S.

Baggage, Outgoing

2 lbs. Calcium carbide.

Vials

Steamer trunk

Baggage trunk

Suit case

Satchel

Addresses.

Fordyce Ginnell, Southwest Inns.
Cvt. 468 Mammionway.
Los Angeles, Cal

Mrs J. W. Greene. The Lenox,
Buffalo, N. Y.

J. H. Skewes. Calura Mine.
Real de Monte, Hidalgo.

G. C. Willett. Gold Block. N.

Jenny R.
Hana's Institute, Hana, Ohio

B. Baker

Jelly Cottage. Norwood Heights.
Cincinnati (134 Summer St.
Kenton Center)

Emel, Anita. 236 Rawson Road
H. H. Donaldson. 1581 Beacon St.



Vishu. State Journal. Mon head, Minn.

Honisthorpe. W. St. J. London, Eng.
Essendene. 68 Epsingham Road,
Putney, S. W.

Peter Mirah.
Vatukouli, Samoa.

J. P. Berry. C. S. R. Co. Labasa
"Results." or Sydney

R. W. Vollmer, Levuka, Fiji
(Temp. Nadarivatu). A. I.
safety razor. 2 Violet lamps or
6 wholesale with 6 extra single burners.
Sweet corn seeds.

Cat. Talking machines + records.
Life Insurance & dope.

Albert O'Connor.
Laga Laga, Kadavu
4 girls + canvas. Fiji.
house.

Bright & Son. 104 Strand W.C. London.
S.S. Fiji April.

Whitfield King & Co. Ipswich, Eng.
Standard Postage Stamp Cat.

C. H. Wright.
Dept. Agric Suva, Fiji.

J. E. Stock.
Toorak Army St. Suva.

C. W. Baker. Rabara? Lau. Fiji.

J. P. Jefferson. Suva.

A. W. Amos.
Lakeba, Lau. Fiji.
Photos. Australian ants

Lt. Trotter. Scotland
Mt. Tabor House, Perth.

"stamps".

H. Wier. Taviuni. Quacavula (Luo)

J. Rimmer, Waigamitu,
Narua, Fiji.

E. T. Wilson. Fiji.
Kadavu. Reading matter.
Sweet corn seeds, etc.

For I. W. Bailey

Collections of Woods.

Twigs & mature

wood of the following families:
Sterculiaceae ^{Kena-iva na alava Koro}

Malvaceae ^{Bele, Imbululo, van damudamu,}

Tiliaceae ^{siti; gaigai; maku}

Saxifragaceae ^{Vuga; Katakata}

Twigs & mature wood of the following species:

Rhytidandra vitensis

Casuarina equisetifolia ^{noko-noko}

Gnetum gnemon

Twigs & mature

wood of the following genera:

Richelia-

Trimenia

Graeffea

Amarouria

Smythea ^{uno leu, hedi}

Paphea

Canthiopsis

Oncocarpus ^{Koro koro,}

Haplopetalon-

Mesopanax

Bakeria

Pelagodendron

Carruthersia

Photos.

Josia Rawasan, Nasogo,
of Mr. Spence. (Man with club.)

R. C. Friend. Nadarivatu.

Winter Holiday in Fiji.
Brummitt.
Chas. H. Kelly. London

Simeoni Nadaknita^{vu}cki.
H.M.P. London, Loma Rasa.
Tui Loma. North, Fiji.
"picture post cards."

G. C. Barret. Mainumu, Fiji.
Such. Madagascar. West Indies.
Cuban tobacco seeds.
"Saturday Evening Post"

H. H. Woodless. Lakuba, Lau.
Sat. Eve. Post. Rev. of Post.
Other magazines to J. 2.
Drawing paper in loose leaf.
book & paper (Bull. trans.)

Ants of Fiji.

Camponotus

cristatus Mayr.

♀. L. 7.5. Black, shining; mandibles,
antennae & apex of tarsi ferruginous;
mandibles finely & densely striate &
sparsely punctate. Head coriaceous &
rugulose, with long erect pile;
rostrum about scarcely convex, occiput
^{vix} emarginate. Clypeus not carinate,
not produced anteriorly & not exarist.
Thorax coriaceous-rugulose, almost
naked, meso- & epinotum, joined
into a thin lamella. Petiole
squamiform, oval, laterally wedge
shaped, margined above. Petal Gaster
transversely rugulose striate, with
long erect yellowish hairs &
appressed yellow pubescence.
Legs finely rugulose, without
erect hairs. Anterior femora
incrassate.

Q. calan. 1-♀.

Camponotus
laminatus Mayr.

♀. L. 6 mm. Castaneo-ferrugineous, shining, sparsely pilose. Head & gaster black, mandibles ferruginous; head anteriorly obscurely red; tarsi fuscous. Mandibles densely finely striate; sparsely punctate, with blades indistinctly dentate.

Head finely rugulose, above hardly convex; occiput slightly emarginate.

Glypeus not carinate, not produced or exserted. Thorax finely rugulose.

Meso- & base of epinotum compressed, into vertical lamella, posteriorly produced into a triangular tooth, as Petiole scale-like, sub-quadrangular, convex in front, flat behind, upper margin acute.

Gaster finely transversely rugulose striate, with some erect, long yellowish hairs, & very sparse pubescence. Legs (abdomen) erect pile. Tibiae compressed & dilated.

1 ♀ Ovale

Camponotus
schmeltzi Mayr.

L. 5.4 mm. Black, shining, tips of mandibles ferruginous; antennae fuscous; legs rufocastaneous. Mandibles sparsely punctate; distinctly striate at apex. Head finely rugulose, with a few erect hairs, & long appressed pubescence; above & below strongly convex; vertex distinctly depressed, moderately emarginate. Thorax finely rugulose, without erect hairs with sparse yellow pubescence.

Meso- & base of epinotum compressed. Petiole sub-cubical, weak, depressed convex in front, the disc above rounded, triangular. Gaster densely finely rugulose striate transversely, with moderately abundant long erect hairs, & shorter sparse pubescence. Legs without hair.

♀ Ovale.

Colobopsis dentata Mayr.

♂ 3.5 - 3.8 mm. Black, sub-glabrous;
Mandibles, thorax & petiole ferruginous.
Clypeus obscurely ferruginous; antennae
& femora fuscous; tibiae & tarsi test-
aceous & a little infuscate. Head
coarsely reticulate-angulate & densely,
finely punctate, anteriorly obliquely
broadly truncate (but not distinctly).
Mandibles somewhat dilated, finely
striate & sparsely punctate. Thorax
coarsely reticulate-angulate, wedge-
shaped; in front twice as broad as
behind; above with a median
carina which is interrupted
longitudinally. Meso-epinotal
suture impressed. Pronotum
much broader than long, the disc
flattened. Mesonotum with a
transverse carinae. Epinotum
densely punctate; sub-cuboidal,
longer than broad, the base horizontally,
trapezoidal; behind with two
obscure spines. Petiole densely

punctate; sub-cubical, above
armed with two erect teeth.
Gaster very shining, finely
transversely rugulose striate,
with sparse fine appressed
hairs.

♀. Ovalare

Odontomachus singularis Mayr.
♀ L. 12.5 mm. Abundantly castaneous,
shining, sub. glabrous. Head,
mandibles, antennae & legs ferrug-
inous. Mandibles strongly dentate,
with two large apical teeth &
a third smaller intermediate.
Space between antennae & eyes
smooth. Frontal area
densely striate. Venter smooth,
longitudinally sulcate. Pronotum
smooth. Mesos & epinotum finely
transversely striate. Petiole
almost smooth, the cone angulate
anteriorly above.

♀ Oolam

Pheidole oceanica Mayr.
L. 4-2x. L. 4-4.4 mm. Rufous yellow.
gaster infuscated at middle &
posteriorly. Mandibles smooth,
sparsely punctate. Head strongly
striate; behind depressed &
angulate reticulate; sides above

eyes reticulate-striate. Clypeus
almost smooth, shining, with
a short median carina, emarginate
anteriorly. Scape moderately long,
suber ~~suber~~ narrow. Thorax
angulose. Pronotum sub-globose.
Mesonotum transversely "grooved"
at middle. Epinotal spines
long & erect. Tibiae & scapes
with erect pile.
♀ L. 1.3. yellow. shining.

Colobopsis oceanica Mayr.
♀ L. 10 mm. Shining, ruf. cast-
aneous. Head castaneous, front,
vertex & abdomen piceous. Sparsely
pilose; scarcely pubescent. Mandible
finely striolate; sparsely punctate.
Head finely coriaceous, not
strongly obliquely truncate in
front. Clypeus vertical, finely
striolate. Front almost smooth,
with a few very fine punctures.

Clypeus quadrangular, scarcely longer than broad, flat, without a median carina. Cheeks convex. Thorax unarmed, microscopically coriaceous. Petiole with a minute, erect thickened scale, thicker than high. Gaster finely rugose.

Wings. L. 9 mm. subhyaline. Veins & stigma & costa ochraceous. (Ovalar)

Colobopsis carinata Mayr.

Soldier. L. 7.5. Fuscous - piceous. Shining. Head in front castaneous, behind (& the mandibles) obscurely castaneous - fuscous. Antennae ochraceous. Posterior coxae & trochanters pale; femora fuscous; gennivae, tibiae & tarsi testaceous, with very sparse erect pile. Subtly

coriaceous; mandibles punctate & finely rugose striate. Clypeus convex behind, with short longitudinal rugae; median carina entire, acute. Cheeks & antennal fossae to the clypeus, obliquely rugose, the rugae short. Head in front not strongly obliquely truncate. Clypeus prominent. Thorax flat at middle & posteriorly compressed. Petiole scale oval, hardly magnified

(Ovalar)

Campoplex *ruficornis* Smith

♀. Major. L. 5.6 mm. Fuscous-piceous. Head in front & mandibles ferruginous. Antennae, epinotum (in part.) petiole, node & legs. inf. ferruginous. Scarcely pilose & microscopically pubescent

Mandibles strongly reticulate rugose.
Head in front obliquely truncate,
with an acute crenulate margin.
Clypeus, cheeks & front strongly
crenulate rugose. Third
half of head finely coriaceous &
shining. Clypeus not carinate,
slightly narrowed in front. Thorax
shining & finely coriaceous, with
sparse punctures. Sutures not
distinctly impressed. Epinotum
unmarked. Node thick,
sub-quadrate, unmarked;
margin rounded. Gaster smooth
& very shining.

Ovalau & Tonga.

Cardiocordyla nudus Mayr.

♀: Length 2.2. Fusous; ~~legitimated~~.
legs lighter; head & gaster
darker; mandibles, antennae
& tarsi ochraceous; antennal
club darker. Body without erect
pile, but with sparse pubescence.
Mandibles longitudinally striate.
Head sub-opaque. Clypeus
convex; frontal area & frons
rugose. Antennae 12 jointed.
Thorax subshining, finely
reticulate punctate. ("exaspar-
ator"). Pre-epinotal suture
impressed. Epinotum with
two triangular teeth. Post-petiole
entirely notched. Lab. Gaster
smooth & shining.

Ovalau.

Sphingidae

Macroglossum hirsutius var.
vitense Bruce.

Small, robust, Hemaris-like.
Hindwings with yellow band;
tufted tailed. Day-flier.

Cephanodes aimatus Bruce.
Clear wing. Abdomen with two
red spots. Day-flier.

Chromis

Hind wing yellow, with a
narrow marginal band. Front
wings rich brown, with darker
markings.

Stilpnidae

Oxyamblyx

Falcate fore wing, with
marginal line; even, rounded
black spot sub-basally; yellow

Sphingidae 2.

under wing, brown upper
wing. (Solomon Islands)

Thereuta.

Front wings variegated,
brown.

Rhagastis.

Five brown; dotted fore-
wings.

Cechenena

Barred brown forewings;
black blotch in hind wing.

Psilogramma jordani Beth. Baker

Ants.

Black *Camponotus* from Cabara.
Both species found running on
leaves in the thick bush. Found
in central basin of island. Very
timid & active. Sharp to the
ground.

Odontomachus. Cabara.
The red headed ones come out in
the bush & run about on the
leaves.

Camp. laminatus. Nagasau.
In large hollow stems.

C. cristatus. Nagasau.
Small stems.

Iridomyrmex sp. *Javiumi*.

In the woods above Mackenzie's place and on the crest of the mountains back of Waigoo & near the lake the species was common nesting always in *Myrmecodia*. One bulb which had been lying on the ground for six weeks - Mackenzie thinking it was an orchid & wanting the ants out - still had quantities of ants in it.

All the bulbs that I was able to examine - a half dozen - sheltered the ants. Sometimes a number of the plants are in a single tree.

Wainumu.

Found in hollow trunks of "yasi yasi", a very hard wood

Camponotus. Red. from Bega, Kasauri, Lakeba, Kadavu, etc.

Lives in crevices & beneath bark of "ivi" tree, where it is always associated with a soft scale. These of fibrous material built over the scale are probably done by the ants, though the scale generally lives beneath bark.

Enochetus sp. *Taviumi*

After rains it is fairly common in small nests beneath stones in shady places. Active in life.

Lasema
Beneath bark.

Phyracaces? *Lasema*.
In ground beneath edge of stone.

Nosogo. 1 ♀ in same type of country, rather boggy.

Myrmecina *Taviumi*

The large colony was found beneath a rather deeply imbedded stone, in company with the small red yellow *Camponotus* & a single specimen of *Strumiger*. (See further notes!)

Myrmicine. Small brown. *Lasema*
Colony beneath bark with ♀ & larvae. Another colony next day in same situation.

Pheidole? Thick, black. Found soldiers & workers with ^{above} some ant. Very slow in its movements. *Lasema*.

6.

Strumigerus sp.
Pewa, Mema, Taviuni.
Lasema.

In fairly populous colonies
beneath stones, in more
or less open land - not
in the bush.

Those from Lasema were in
the bush along a bullock trail.

7

Solenopsis?
Small yellow Myrmicine. Taviuni.

Found in small colonies beneath
stones, always with other ants,
in open fields. Many
workers and two queens were
taken.

Lasema.

8
Ponerine. Long, slender
yellow.

Javirui.

Four specimens taken, one
each beneath four stones
in the earth, not on the
stone. Hygroaic. after
rain; in bush.

A small colony found
same situation & several
single ♀♀ at Radavatu.

9
Ponerine. Large, Ponera-like.
~~Platytheca?~~

Javirui.

One small colony with larvae
& one populous colony were
found in the bush beneath
stones. When touched, the
workers roll up, like
Cryptomyrmex, simulating
death. They make no
attempt to sting.

Near above.

Colony from Radavatu, beneath
stones many pupae. In
observation nest.

Ponerine. Ectatominae?

Taviumi,

Very small colonies - less than a dozen individuals beneath stones in bush.

Very slow in movement. Active with its sting.

Leptogenys? Lucena

2 ♂ beneath stone

Same species common at Nalavivatu beneath stone in wet places. Food: myriapods & earthworm

Ponerine. Trachymesopus?

Lucena

Beneath Bark & in rotten wood. Apparently in very small colonies.

Many more from various localities, mostly in rotten wood.

Plagiolipsis longipes Jord.

One might blame this ant for the scarcity of others, if other species did not live under the same stones with it. It lives in all possible situations & at all of the lower altitudes. At Taviuni it was not found high on the crest of the hills.

Some empty shells of *Bulinus* placed in a straw case for 3 weeks at Unisa had a flourishing colony of the ant, with larvae & pupae.

Myrmicina

Lasema

Taken under a stone. The workers, both in this nest & the one at Taviuni, extruded from the anal glands a frothy looking matter, resembling very small worms. This was deposited about the nest. It comes like feces, very rapidly & curls. It is viscid to the touch.

+ ♀♀

Isrene

At Waiyamite I observed one ♀ stand still & eject a thread three quarters of an inch in length & immediately afterwards another a half inch long. Sometimes they eject it when ~~run~~ moving, but generally they

(see opposite next page)
Myrmecina? slender

Isrene

1 ♀ Beneath stone

Another at Waiyamite, beneath stone in forest

Rhopalothrix

Sugar

Rather large colony beneath stone in forest. Very slow in movement; death feigning; difficult to see.

Four ♂ & ♀ were taken again at Waigamita from beneath a log. I could not locate the nest.

Several ♂ & ♀ and a queen beneath a stone at Kadavatu.

Not uncommon, but very hard to see.

Nasoga. Watched one ♀ perform about its nest entrance in a red clay bank. It went in & I could find neither ants nor nest.

Myrmicinae (cont. from last page) ⁽¹³⁾
stop running. When they the ants remain motionless on black earth the threads are seen before the ants.

Camponotus sp. Black, with -
out compressed epinotum.
Mayaniter.

Holds gaster flat over
back while running.

Very common in forest
at Radavatu, but
I have not been able
to get at a nest, which
are built in the highest
trees.

~~(Colobopsis)~~

Camponotus mandella sp. nov.
dark red thorax & legs.

Mayaniter

Common in twigs in the
forest. Linnæus. 2 specimens.
To be named after
Mrs. Mand Rimmer, who,
with her engineer husband,
has penetrated all parts of
Vanna Loru & Viti Loru,
traveling more than any
other woman through the
interior.

Epopostruma sp.
 A large colony from beneath
 two stones at Wangam tie.
 Several from Kadaiwatie,
 from rotten logs & beneath
 stones, but generally
 between them.

The individuals remain
 still when the nest is
 uncovered, or move very
 slowly.

They construct a sort of
 wall, very thin, of mud,
 about the nest & the
 brood chambers are separated
 off.

I have some in an
 observation nest. They are
 constructing a wall along
 the sides of the jar.

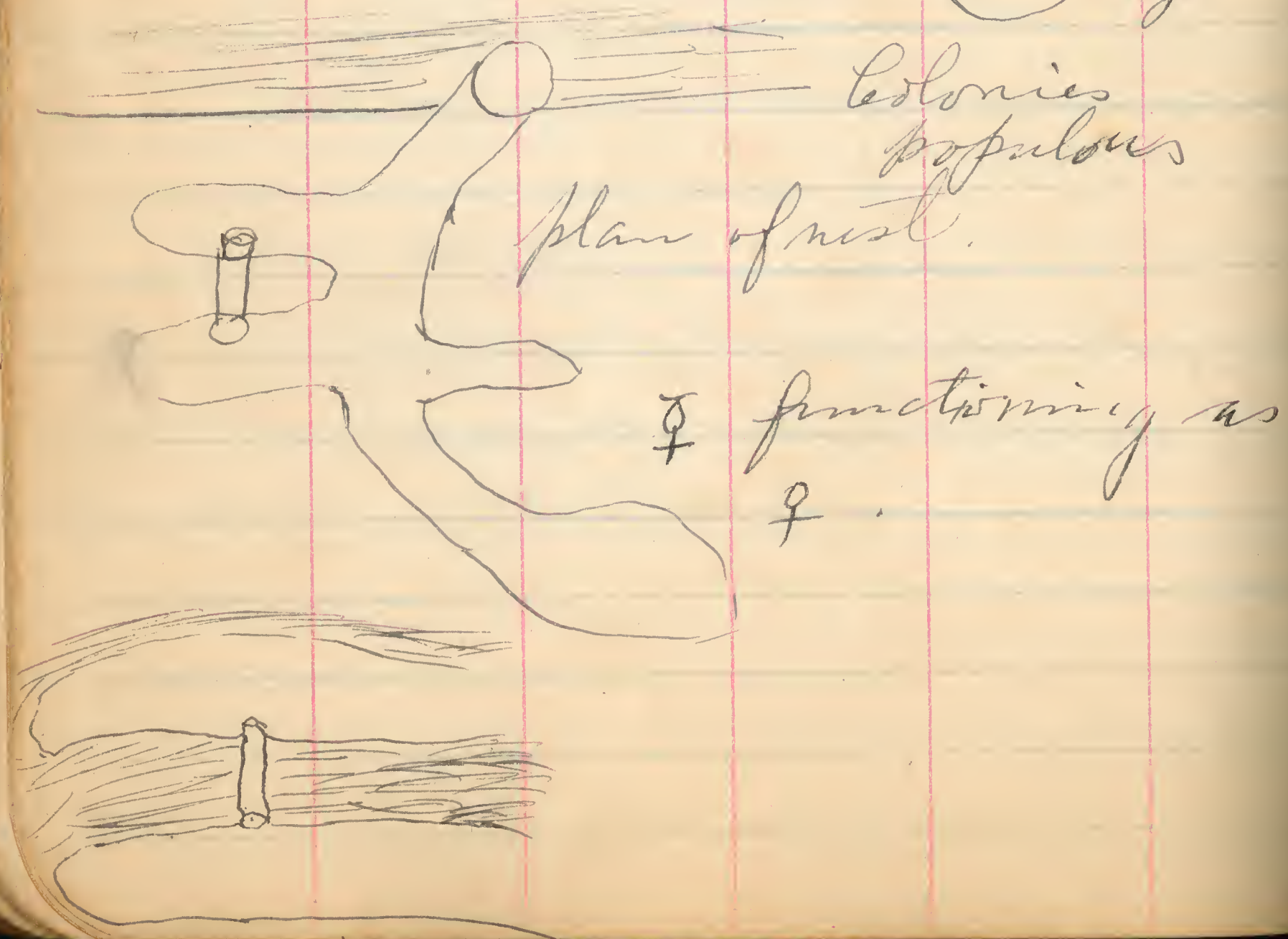
Kas nien nien
 Kadaw name for small
 ant. *T. melanocephalum*

kadi
 kasivi

Odontomachus sp. possibly
angulatus Mayr. *radarivata*.

In wooded canyons to the north
of the station, some distance
down the sides of the mountains.
The ♀ forages during the day-
time.

Nests are in the ground,
beneath stones or among the
roots of trees, and complicated
nests, with broad flat chambers.
Entrance circular. ○ this
size.



Myrmecodia.

Taviumi.

On the higher hills, mostly
in high trees, but at the
Lake some were about seven
feet from the ground.
Covered with bristles.

Always containing *Didymopanax*.

Myrmecodia.

Nadarivatu.

"seki seki."

In high trees. Not brightly
Many without ants. But
with scorpions, myriopods
& spiders.

No definite ant in them
but many species.

Used in "dram ni kam."

Masogu. Jan.

Twenty ~~nests~~ examined. Several
Pheidole colonies. One black
Camponotus; many empty. One
with four gecko eggs

~~A fungus~~, Used as medicine for
deafness.

Nadarivatu 1.

Small Myrmicine, nests in very
small colonies in small pockets
in damp earth beneath or between
stones in the bush.

Nadarivatu No. 2

Pheidole. Found beneath stones
in damp places. Very sluggish.

Nadarivatu No. 3.

Myrmicine. Mr. Friend pointed
to a clay turret & ~~point~~ said
it was an ant nest. I dug
in and found the single
worker. Doubt it's making the
turret.

Nadarivatu No. 4

Ponerine. Large colony, beneath
a stone in a small pocket.
The pocket was an inch and
a half in diameter and two
thirds of an inch deep and

was packed full of larvae, mixed with the ants. A small hole in the bottom of the pocket led into a large (one inch in diameter) passage, extending vertically into the ground. It went deep, for I dug over a foot without finding bottom. The ants do not simulate death, but move ~~actively~~ ^{liequidly}. The worker-like individual, a callow, was among the larvae. It being a callow is interesting.

Nadarivatu. No. 5

Myrmicine. This is the one I have hitherto found only a ♀ at a time. This nest was ~~in~~ in a log, on the under side, beneath a piece of bark.

Rosogo. No. 1.

Small Myrmicine ♀ & ♂ beneath ~~below~~ in crack in stone.

Rosogo. No. 2.

Red Myrmicine, nesting in little pockets in red clay bank, small groups of ants with larvae in little chambers. Extensive nest.

Koro Vatu. No. 1.

Odontomachus. Nesting in holes in clay bank. Constructs small earth hills, loosely thrown out, with many entrances.

26

27

28

29

30 Julgo. "liva ni gela"

Inhid. Big, white-headed,
Radarwater.

Abundant secretion from
along the sides. ~~the~~ lot
that I placed in a box
were killed by it.

Mr. Friend states that he
saw a hog eat one while
grubbing and die a
little while afterwards,
about three hours.

31
Frogs.

Kyla. 4 brought me at Nasogre
by a native, Atikini, who
found them on leaves while
clearing his plantation. He
brought 30 eggs also. On wild
dali (goni tana)

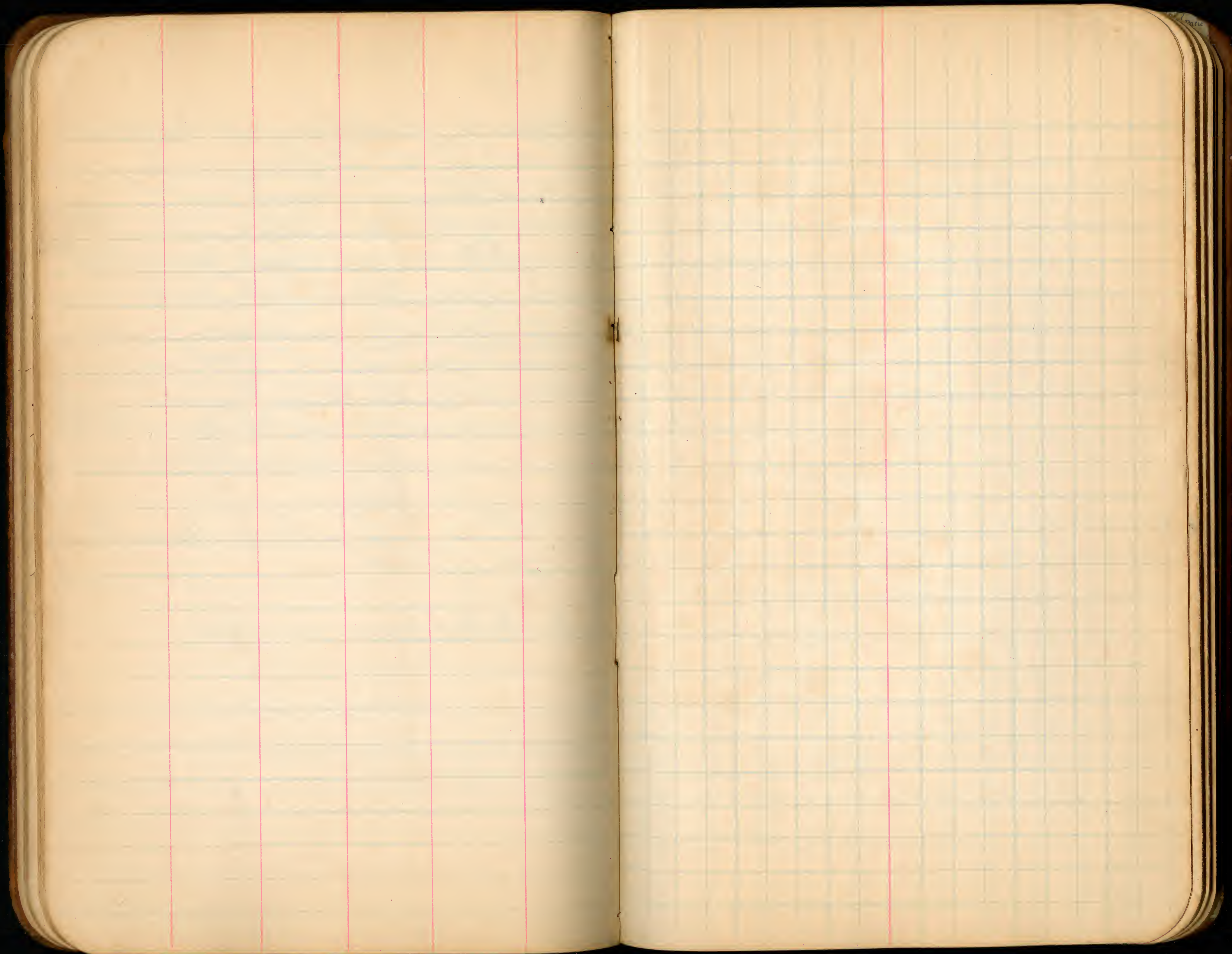
Egg. Jan. 24.

Diameter $1\frac{1}{2}$ inch. A little more
than half of it "yolk".

Tadpole half-inch long, white
as is the yolk, actively moves
his tail & body.

Kept on leaf in damp box, with
layer of moss.

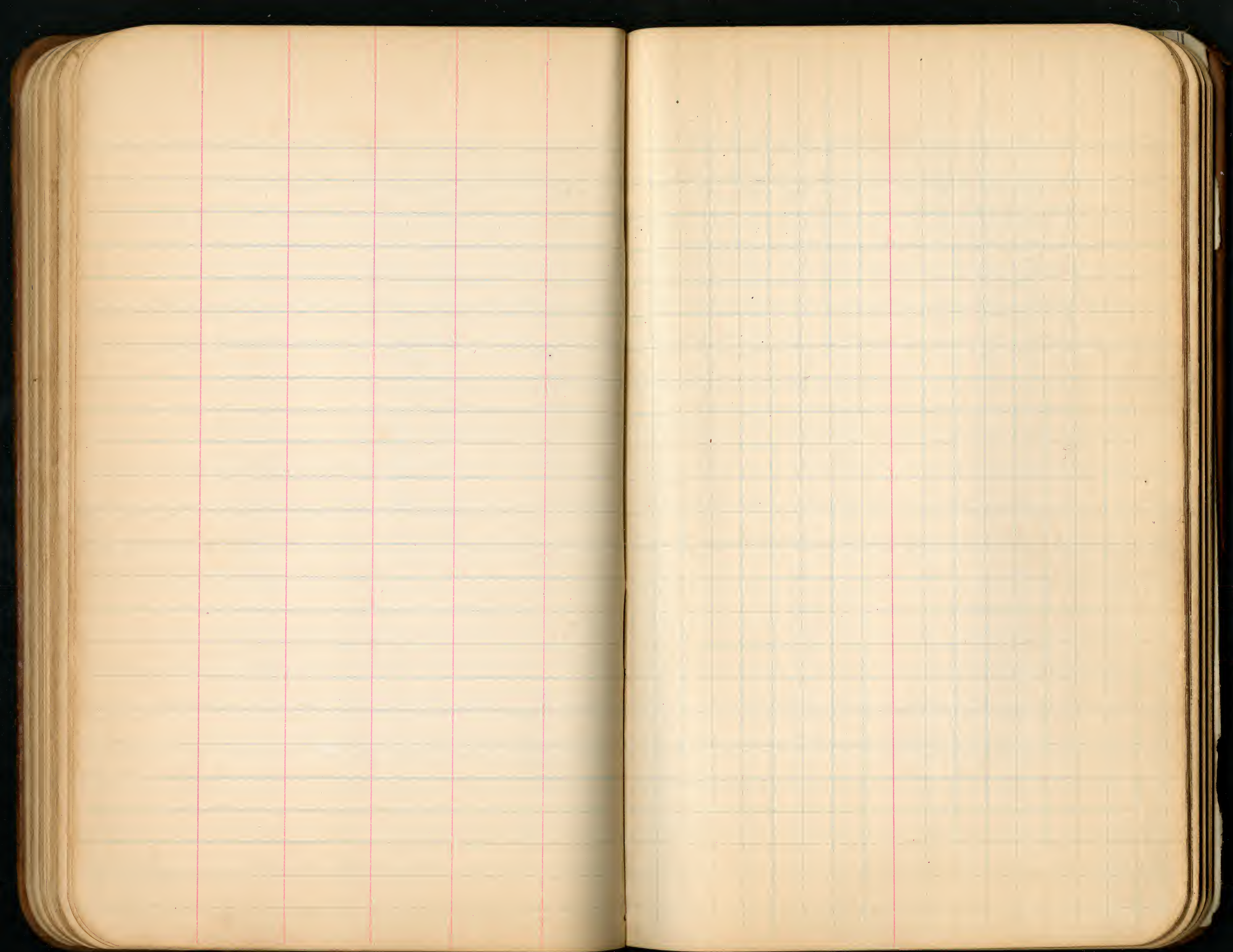
A. killed Jan. 25, 1916.



A. M. Burton's specimens.

ERRETT R. NEWBY
SECRETARY AND REGISTRAR

THE UNIVERSITY OF OKLAHOMA
NORMAN
OFFICE OF SECRETARY AND REGISTRAR



often given to devil;
carried to cave in bush.

There is also a devil house
the west. ~~Like a~~ flat
island. Live on a

Land said when one dies on
land the spirit goes to island
& drifts away to an unknown
place to the north & departs
the spirit & then comes back
when one is seriously ill. Looks
like a steamer but has no
trees on it.

"Sundown" - Solomon I
started in rain for ~~Nasagai~~
Nasagai. Up hill off
trail. Best of hill
(Solomonie patch of trees etc.
Bimby Ohimamun here see.
Him Bay.)

open woods. ferns. vines!!
down. playful wash
and black lizard. Babblers,

Chitons!
Fence!
Too plenty money belong
him Melika. I like
stop der.

Emerging trail again
tide out. Broad bays,
small fish. Sand.

Turaga (Nasagai)
Amibias. photo!

Prillan Bay. Fisherman

Gagwona.

Matami vanna

Tooth
Spuch.

A wosh wosh
"tambo", low
Spuch of

Matami

Q. sa 101
ai
Vi

big up not fire large mouth
+ big bag.
Name now Navu.
Grabs by shoulder & eats
them raw.

Not seen lately.
Lives in hollow of big tree.

down

Streams. Bottle & note.
Thatch hut. Dinner
Walk in saddle. Moss feet
thick. Pigeons. Blue
staphylinid, I saw many
worms beneath rocks. Vegetation.
Bulbous descent.

Land crab.
In village no baskets of
food as parents. (10 men
in village).

At night the girls in
the village came in
and served gagwona.
much prompt
Melita's story. giant.
In the land was once a
big devil & Mabali on Mt.
off he ate the people on
this side there was
lots of food on opposite
side of island
vice versa -
Name Cilobali.
Present of food (dalo - nut

Gaguona.

Matani vama. A. Sara.

Tooth
Spuch.

A rook who was!

"tambu", lam

Spuch of given

Matani, kiss tooth.

A. sarak. A. ya. 7m

ai.
Vinaka

Next. P
big eyes shot fire large mouth
+ big belly.

Name was Nava.

Grabs by shoulder & eats
them raw.

Not seen lately.

Lives in hollow of big tree.

down.

Streams. Thatch hut. Dinner

Walk in saddle. Moss feet

thick. Pigeons. Blue

staphylinid. I saw with

worn. 5. The rocks. Vegetation

But. 5. went.

San.

In vic.

food in

in vill.

5. shots. of
(10 men

Get on
the village. 5. in

and show. 5. in

much from. 5. in

Melita. 5. in

In the land. 5. in

big deal. 5. in

off he ate the people on

this side there was

lots of food on opposite

side of island

vice versa.

Name Cilobali.

Crumb of food (dab - not

Sonati

Cliff entrance through
fine grove of

stone fence.

Outlook from village.

Bread fruit - mango.

Good sword.

Yamgona.

Whale teeth.

Ceremonies in
shade of church.

Food.

2 or 3 big baskets, two

Yamgona ties.

Whole baked pig.

We sit ⁵ (cinnamon) chairs open.

beneath mango tree.

Man of village opposite

Small of pig.

Pig deeply carved with

small knife. Rare

Lunch. Fish, curry, corned
beef.

Afterwards another presentation
by people of other village.
Speech by Roko

In company with Liji &
Solomon boy took walk
along cliff, up hillside
Yamgona fields, via Kana
bush. Carr. Evans.
Shrub "

green warb, walking sticks.
Cicadas, 3 species shells.
Whip scorpions, ^{Ben} ^{fruit} ^{ignat}
Fresh water shells in rain
pool.

Make Mike

Up mountain "Buki Cui"

E. J. Wilson, Alcott August

Start at 10. In forest

steep climb, rain, slippery

little few trees to hold on

to steeply climb. Not

large forest. Top of crest
at noon. But our men coming

found everyone chewing
corn, a half caste
family occupy the
town.
Habitual eating
mangrove pool.
Swift crab - hole in
sand in water - filled
mosquitoes, hulloah.

Colyotes talcum <sup>Dr. Smith's
like chestnut</sup>
"Laby", "Lilo" On beach
Playful girls Blackened
our faces flushed us
as we went to boat.
Roko not indignant.

O'Connor
Landed at ~~Vakua~~
Vakua, Ono at 7.00. Black
on the beach; just arrived.
No Mike!

In morning left on
cutter "Aivalu" for
light house - Solo.

Small islands all
about off Ono. then

a couple of bare rocks.
Reefs on all sides. dead
calm & hot.
Reached light house at dark.
Enclosed in circular reef -
atoll - best place for sharks
(worst in Fiji).

Light house latest pattern,
all steel. View of reefs from
above by moonshine.
A few ~~of~~ reefs of volcanic
rock, ten feet above water
at low tide. No landing
place. Rough rocks.
Two Hindoo men & one
woman. Changed every
two or three months. No
boat - can't run away.

On 1/4 mile through the mangroves
like navigating a forest
(up to two feet deep) to
bay.

Streams of Hydractis
(immature) in bay near
the mangroves. Companion
too hurried for me to
catch many.

Comoto

On beach. Regulation
church. water through
town. Shimmer.

Outrigger to the boat.
Between this & the last
town. The coast has been
mugged with low cliffs
& hills.

Several other towns passed.
All the same. The N.M.P.'s
boat races with us. It
capsized on a turn.
Putting every one in
the water. No sea

lost his ladies purse, but
saved his gold watch
(16 shillings) by putting it
in his mouth.

One Indian - insane &
the court before but
his sister & son attached in
the boat until we were
brought it.

V Babea

On beach. In the night
midnight, the singers
departed to house next
door & kept it up.
Coast rocky in places;
lagoon narrow; hills in
some places here. Many
coastal islands. Turtles.

Mata ^{awa} saw lion.

Laga Lion

On Road bay, with Oreo
across. Walked over &

none in the house has on
a singlet.

Japanese matches - the
Cure of Lige. Bought to
the pipe.
Boys sit in big house - shoe
& head as ordinary men.
Mike insisted upon. It
was very good.
Mongolian.

Prawns, beans etc. for
breakfast. Then we
walked over a steep
hill to Ivora, & received
some more presents, incl. a
very green watermelon.
Buli had not eaten, so
dined on the usual

Itukave. Also on hill.
Several floors, corrugated
roofed, board houses etc.
Photo of kid

~~Jonai~~ ~~Jonai~~ ~~Jonai~~ tree
The high point "We we"
Lu Ana.
Small, on hill side.
Generally one chair in village.
On hot corrugated house

Jonai.
By stream. Boat across.
Photo of church

Tidrai + idrai. Vulp
jumping goby.

Time trail, through very
good dalo beds / lots of
water. Enclosed mangrove
bay. China store. Affable.
Three drinks & goods below
same prices.

Boat waiting. Room.
Little girl gave a Mike -
soft singing. Am tattooed
with row of dots on arm &
initialed. Proverbs. Emma
Photo. Store. Photo.
Hanging beads. Tufang. Yagoma

Beautiful little boy.
Givichisoul.

Mataso "Ho ho!"
Also on the hill. Long
(some kind) presented.
incl. yagonga root
Carried away in baskets.
Straight haired natives!

Kama.
Well inland. Shady
trail half patches. More
food. Wholesale slaughter
of chickens along our
route. Left for camp.
Boy brought them.
2 bi bread of tapira, in cans.
dramalau. smells.
Normal church.
On shores of bay, on narrow
shelf, with steep hills about.
Narrow valley leading into
the hills, with stream,
stone banked along which village
is located. Whores askent
owing to numerous photo

Sort of Quaker meeting here.
Lahu enters given to our
men Yagonga.

"O sara, O ya, Ga ay,
Vinuba"
Some food with pudding
of tapira & coconut oil.
Good! Normal chicken.

Ravita
Stayed until dark for
Yagonga.
Then walked in moon light
over very good trail to
So So ("mud" in Lijian). Two
planks across gullies, on the
slant as usual. China store
Put up in fine big house
with a table in it. &
had dinner of tinned
soup, chicken, dals, bread
& strawberry jam.

Presentation of whistles tooth
to Roko by Buli. Every

And by women - separating
16 leaves & 2 parts
35 in warm. drug, at first
a pint, later rising to 2 pints.
By heating fingers & mouth.
No moving vessel to it.

From around - Dunk
dals, yellow & green, green
broad fruit & from the
left hand side.

This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some faint smudges and discoloration, characteristic of old paper. The left edge of the page shows the binding, with visible stitching or stitching holes. There is no text or other markings on the page.

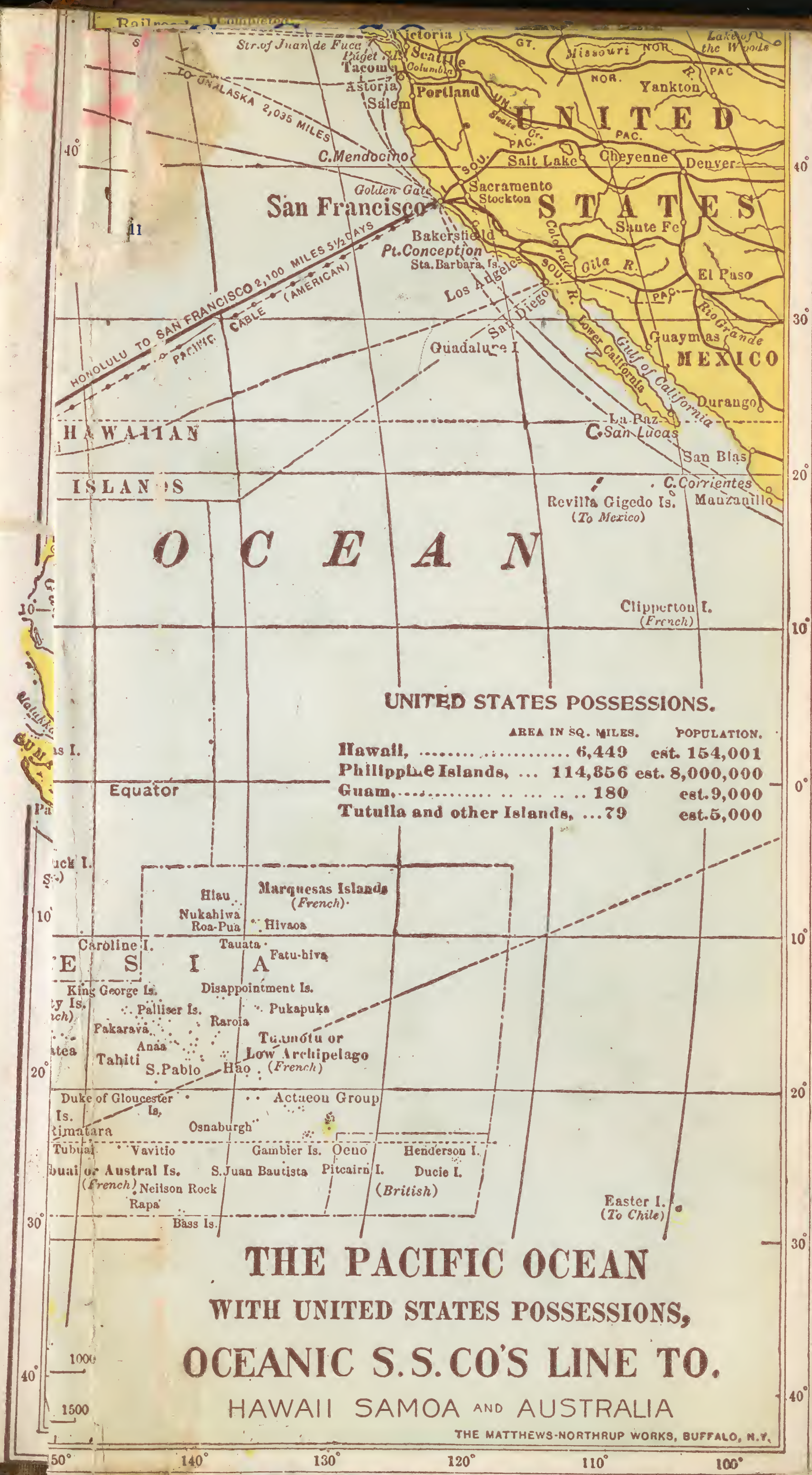
Mentzelia, black underparts,
Arches; eyes red. Wings
(white hair).
Red feet - red spinous
of blue & green.
Orangeish red.

From sticks in front up to
village. 1st. at base of first
Rocks with large. Above water
much. Some with rounded

[Faint handwritten notes at the bottom of the page, likely bleed-through from the reverse side.]



"SYDNEY SHOR LINE FROM SAN FRANCISCO TO SYDNEY, AUSTRALIA, AND THE HAWAIIAN ISLANDS"



"SYDNEY SHOR LINE FROM SAN FRANCISCO TO SYDNEY, AUSTRALIA, AND THE INDIAN OCEAN"





A SOUTH SEA ISLAND LANE
LINED WITH PALMS AND TROPICAL FRUITS

Chicago, and at the Mid-winter Fair in San Francisco. They know the warm brown skins, the bushy black hair, except where it is stained a dull golden brown by the plentiful bleachings with lime. They have heard their plaintive and warlike songs, their dances with beating of clubs and spears in time to the music; have seen the comely women and their gentle swayings in rhythm with the more active dances of the men. They know, too, their costumes, the lava-lava of tapa, mulberry bark cloth, about the loins, the necklaces, armlets, and anklets, and the tall and fantastic headdresses of the warriors.

Besides this costume they wear an abundant coat of cocoanut oil,—which causes them to glisten as if varnished—and the men are tattooed.

But all these things give but a superficial idea

without the least danger of receiving anything but the kindest, most courteous, nay, even the most hospitable treatment.

The misleading nature of maps has long been realized. Little dots in the Pacific are supposed to be islands which one may reach by rowing from one to the other in fifteen minutes. It is something of a surprise to learn that in reality they lie 100 miles, and more, apart.

There is some change in the temperature when the wooded heights of Tutuila are left behind. If it happens to be the spring of the northern latitudes, it is the aftermath of autumn in the Antipodes—the pleasantest season to visit the colonies. The thick clothing that was put off at Hawaii is once more donned and found most acceptable; there is an invigorating quality in the air not felt in the tropics; the languor that has made the comfort of the deck chair peculiarly inviting, vanishes as by magic, and the arrival in Sydney is anticipated with fresh energy and interest.

S. S. Sonoma, on her first voyage in the new service of the Sydney Short Line, was met at Pango Pango by 4,000 Samoans, who came from a radius of 500 miles, wearing full warpaint and feathers, and for three hours entertained the passengers with native songs and dances. Following the dances a big native feast was held, winding up with the passing of a huge bowl of Kava, the native drink, of which all partook.

The steaming time of eighteen days and fourteen hours is being maintained by the Sonoma and Ventura between San Francisco and Sydney, on both outward and homeward voyages.

On her outbound trip the S. S. Sonoma from Pango Pango sighted a volcano in full eruption on a barren Tongan Island, making a beautiful spectacle at night. Norfolk Island and Lord Howe Island were also sighted on the way to Sydney.

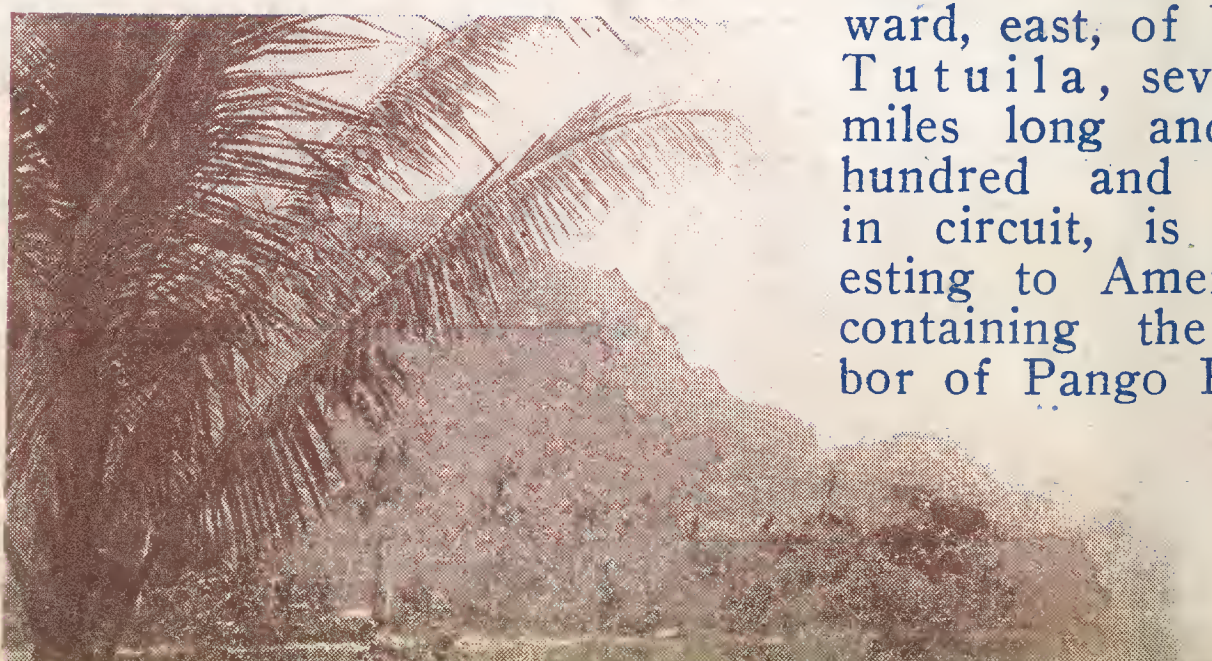




the coral polyp. They are thirteen in number, as generally counted,—though, depending on where one draws the line between an islet and a mere rocky crag, they are sometimes stated as more, and sometimes less, down to nine. Three, however, are by far the most important in size and population. They lie between $13^{\circ} 30'$ and $14^{\circ} 20'$ south latitude, and between 169° and 173° west longitude, and are therefore thoroughly tropical, and lie pretty near that mysterious line where the ship suddenly sails out of one day into the day before.

The third of the larger islands lies about forty

miles to the windward, east, of Upolu. Tutuila, seventeen miles long and two hundred and thirty in circuit, is interesting to Americans, containing the harbor of Pango Pango.



*John Mann
Bureau of Nat.
Forest Mts.*

W. M. MANN
BOSSEY
FOR
MILLS
BOSTON, MASS.

Back.

22

Rana opisthodon

Cominifer guppyi Boul.

C. solomonis Boul.

Nyctala dolichopsis (Cope.) Solomons etc. not
recorded from Fiji.

Sauria

Gymnodactylus pelagicus Gerard

Peropus oceanicus (Lesson)

Lepidodactylus ceylonensis Boul. &

Gonycephalus godeffroyi Peters.

other species common on nearby islands.

Emoia cyanura (Lesson)

Emoia nigrum (Homb. & Jacq.)

Leiopisma virens (Peters)

Cyrtoblepharus boutonii (Heslop-Harrison)

Enygnus bibronii Homb. & Jacq.

Hemidactylus pictus Gmelin. (should
be found.)

~~*Geranobatrachus*~~

HARVARD UNIVERSITY
BUSSEY INSTITUTION

FOREST HILLS, MASS.

June 25th, 1915

Ogmodon vitianus Peters

Procodilus porosus Schneider

Thos. C. W. Stockwell.

Lakeba, Lau,
Fiji.

James B. Turner.

"NASESE,"

SUVA, FIJI.

Sent portraits
five girls
in the Mude

N. Hagen.

Nouméa.

Nlle Calédonie.

Reports on Coconut Insects

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